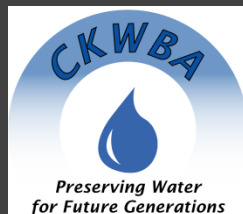


CENTRAL KANSAS WATER BANK ASSOCIATION

Cimarron
Regional Advisory Committee

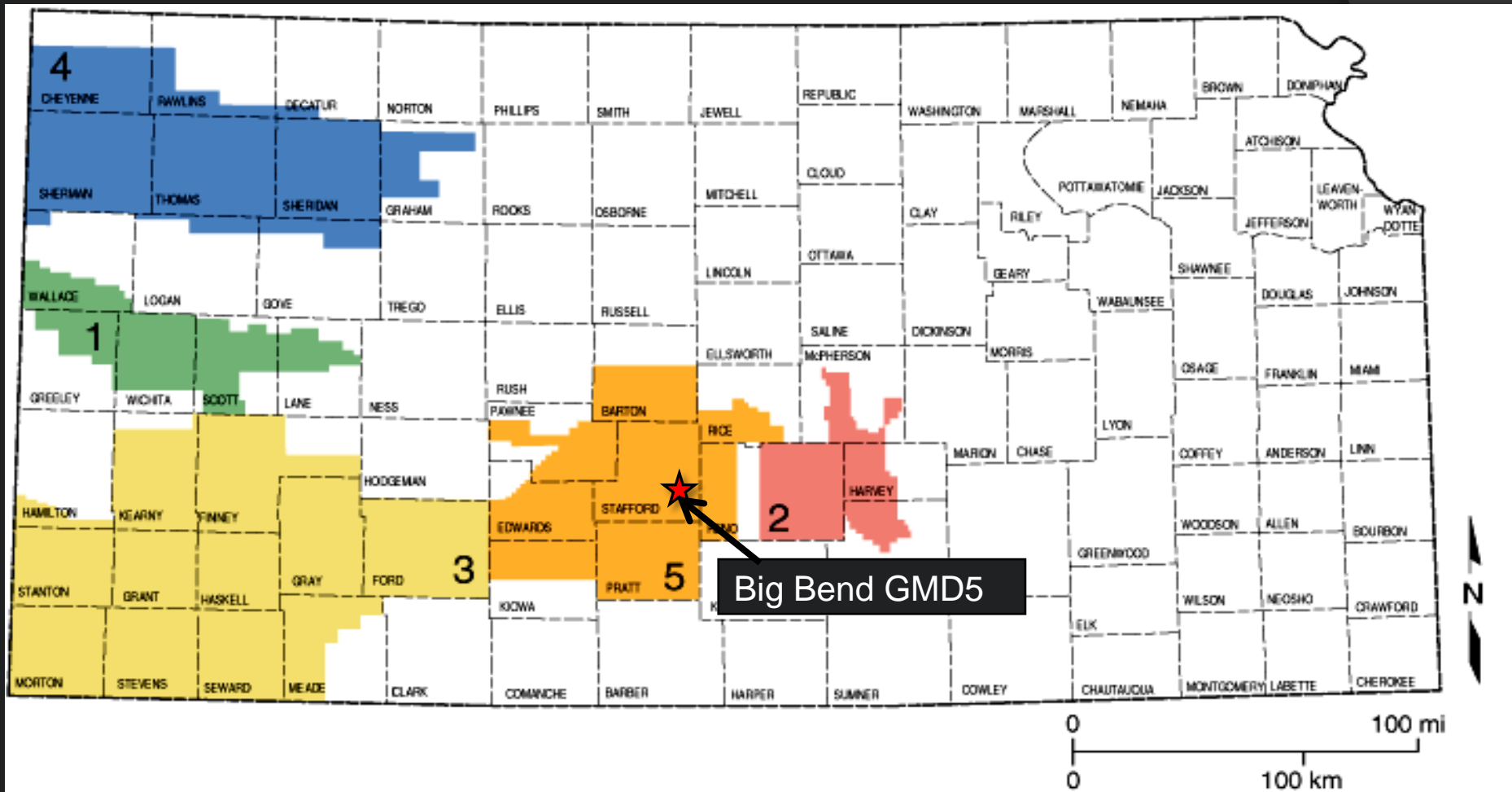
July 12, 2016



Background

- ◎ 1945 – Kansas Water Appropriation Act
- ◎ 1972 – Groundwater Management District Act
- ◎ 1976 – Big Bend GMD #5 established
- ◎ 2001 – Kansas Water Banking Act

Kansas Groundwater Management Districts



Statutory Requirements

K.S.A. 82a-761 *et seq.*

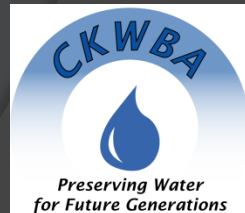
- ⦿ A water bank is a not-for-profit corporation:
 - Leases water from water rights that have been deposited in the bank and
 - Provides for savings accounts
- ⦿ A minimum 10% water savings must be achieved through the activities of the bank
- ⦿ Must have a valid charter with the state to operate the bank

Charter

- ⦿ Define conservation goals
- ⦿ Define bankable water rights (*eligibility*)
- ⦿ Establish hydrologic units and associated guidelines
- ⦿ Set forth procedures for banking programs:
 - Deposit / Lease (*Water Transfer*)
 - Savings Account (*Water Preservation*)

CKWBA History

- 2005 – Central Kansas Water Bank Association
- 2010 – Formal review of CKWBA activity
- 2012 – Revised Kansas Water Banking Act
- 2013 – Central Kansas Water Bank Association 2.0
- 2015 – Central Kansas Water Bank Association 2.1
- 2016 – Central Kansas Water Bank Association 2.2



Central Kansas Water Bank

◎ Deposit: Deadline April 1

- Only Vested or Certified Water Rights can Deposit
- Maximum deposit = Average Water Use (1987-1996)
- Partial deposits are allowed
- Not limited to irrigation only

◎ Lease: Deadline December 31

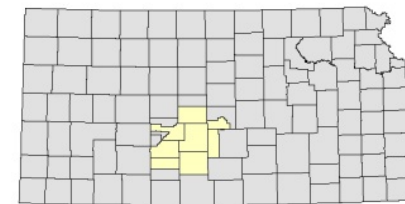
- Conservation component reduces amount leased (10% - 16%)
- Does not have to be same type of use as deposit

Leases

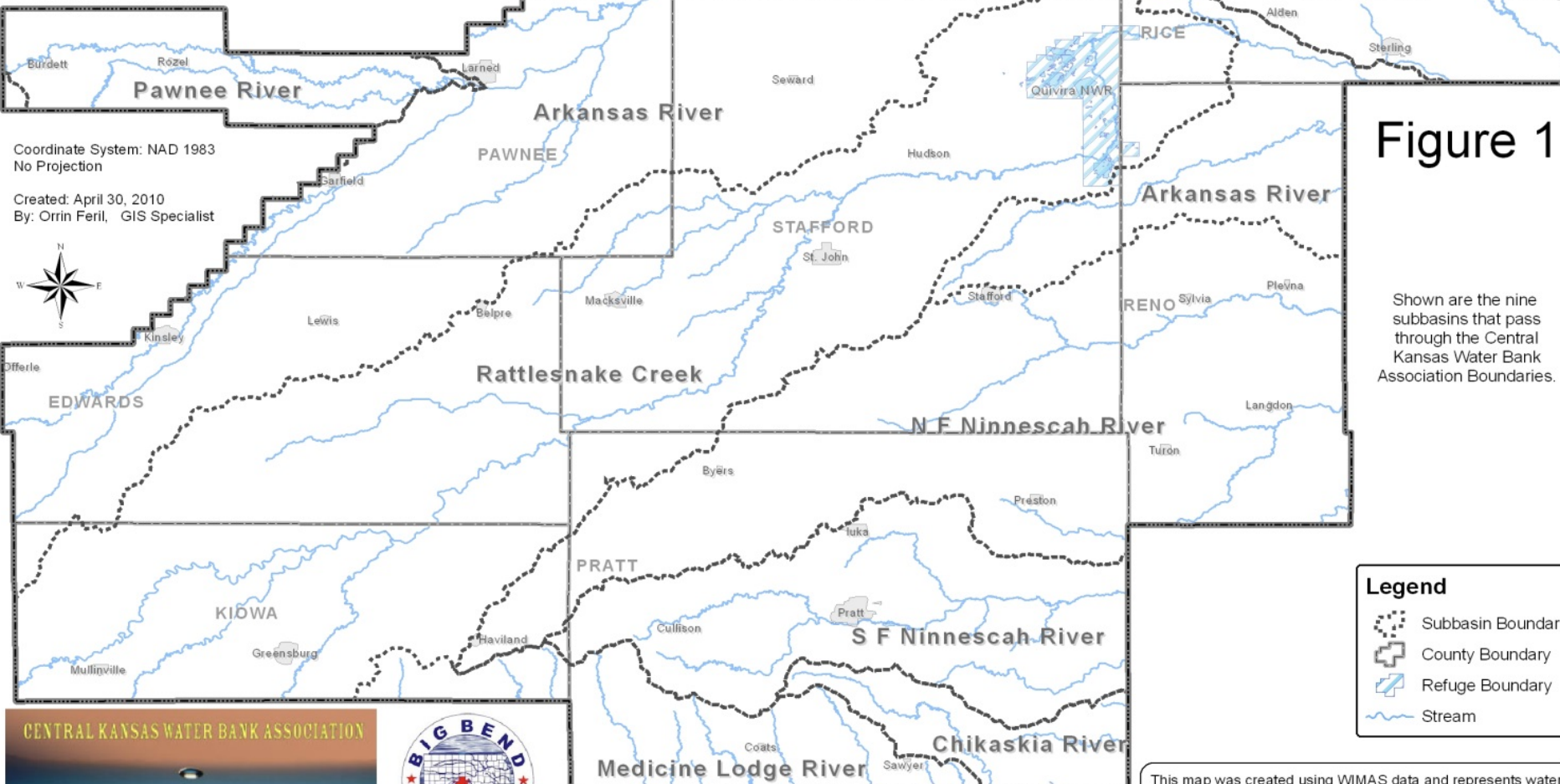
Any water leased must be used within the bank boundary and in the same hydrologic unit from which the water right authorizing diversion of the water is deposited.

K.S.A. 82a-763(b)(1)

CENTRAL KANSAS WATER BANK ASSOCIATION BOUNDARY & HYDROLOGIC UNITS



Index Map



Coordinate System: NAD 1983
No Projection

Created: April 30, 2010
By: Orrin Feril, GIS Specialist

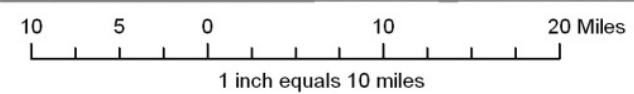
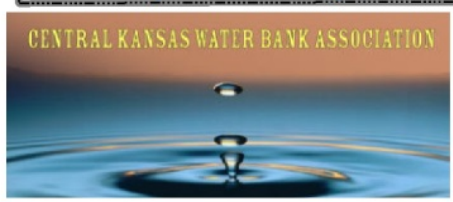


Figure 1

Shown are the nine subbasins that pass through the Central Kansas Water Bank Association Boundaries.

Legend

- Subbasin Boundary
- County Boundary
- Refuge Boundary
- Stream



This map was created using WIMAS data and represents water right conditions as of April 26, 2010.

GMD#5 exercises great care in creating data presentations but offers no guarantee of accuracy or completeness of the data.

Deposit / Lease Example

● Deposit

Certified: 195.00 AF

Average use

1987-1996: 146.25 AF

Deposited: 146.25 AF

● Lease

Conservation Component:
11.00 %

(16.08 AF)

Leased: 130.16 AF

Annual Net Savings: 64.84 AF
(33% of Auth. AF)

Point System

System developed to determine conservation elements – based upon:

1. Sustainable yield within two mile area
2. Average water level change since predevelopment
3. Average saturated thickness
4. Distance from stream

Point System To Determine Conservation Component

WITHDRAWAL Calculation to determine the conservation component for individual wanting to lease water from the bank

[a] Saturated thickness			[b] Sustainable yield			[c] Change in water level			[d1] Feet from stream (0.25m)			[d2] Feet from stream (1m)			[d3] Feet from stream (2m)		
from	to	points	from	to	points	from	to	points	from	to	points	from	to	points	from	to	points
148	200	10.00	0	500	10.00	2.5+		10.00	10560+		5.00	15841+		5.00	31681+		5.00
136	147	9.00	501	1,000	9.00	-0.01	2.50	9.00	8,504	10,559	4.00	14,521	15,840	4.00	29,041	31,680	4.00
124	135	8.00	1,001	1,500	9.00	-0.02	-2.52	9.00	7,478	8,503	4.00	13,201	14,520	4.00	26,401	29,040	4.00
112	123	7.00	1,501	2,250	8.00	-2.53	-5.03	8.00	6,452	7,477	4.00	11,881	13,200	4.00	23,761	26,400	4.00
100	111	6.00	2,251	3,000	7.00	-5.04	-7.53	6.00	5,426	6,451	4.00	10,561	11,880	4.00	21,121	23,760	4.00
88	99	5.00	3,001	3,750	5.00	-7.54	-10.04	5.00	4,400	5,425	4.00	9,241	10,560	4.00	18,481	21,120	4.00
76	87	3.00	3,751	4,500	4.00	-10.05	-12.55	3.00	3,374	4,399	4.00	7,921	9,240	4.00	15,841	18,480	4.00
64	75	2.00	4,501	5,250	2.00	-12.56	-15.06	2.00	2,348	3,373	3.00	6,601	7,920	3.00	13,201	15,840	3.00
41	63	1.00	10,00 6,000	0	1.00	-15.07	-20.00	1.00	1,321	2,347	2.00	5,281	6,600	2.00	10,561	13,200	2.00
*40	0					*20.00			0	*1320		0	*5280		0	*10560	

*See table 2 for additional requirements

Conservation component		
based on App. Avg. Points		
from	to	%
9.00	8.01	10%
8.00	7.01	11%
7.00	6.01	12%
6.00	5.01	13%
5.00	4.01	14%
4.00	3.01	15%
3.00	2.01	16%

Minimum Percentage of 10%

Maximum Percentage of 16%

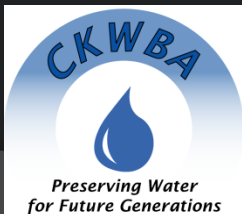
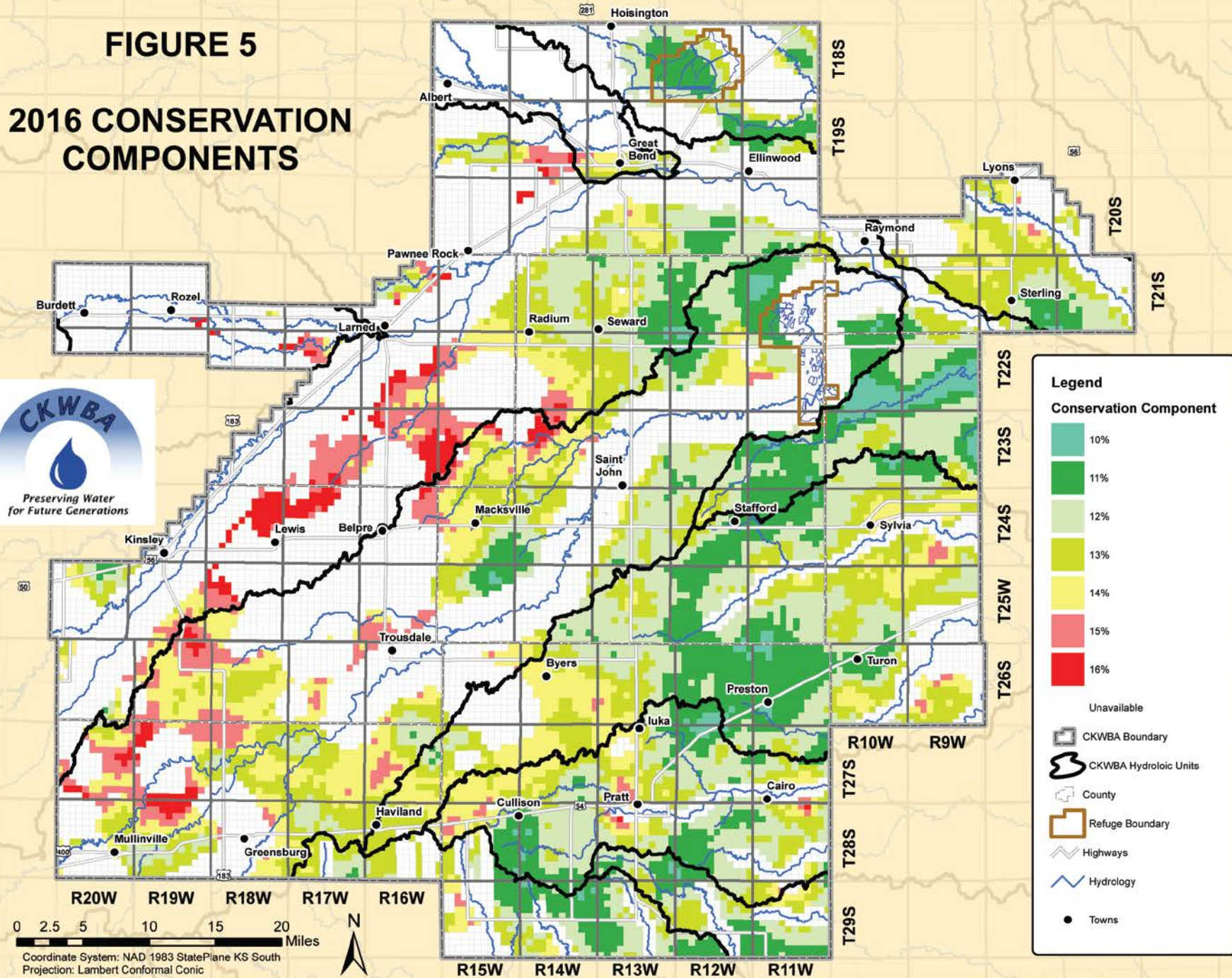


FIGURE 5

2016 CONSERVATION COMPONENTS



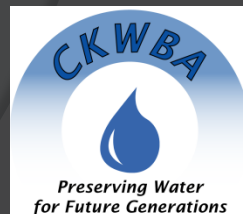
0 2.5 5 10 15 20 Miles

Coordinate System: NAD 1983 StatePlane KS South
Projection: Lambert Conformal Conic

Central Kansas Water Bank

- ◎ Savings Account: Deadline December 1
 - Allows a portion of unused water to be saved to an account for use in future years
 - The amount that can be carried over is 25% of any unused water up to the authorized amount
 - Cannot be transferred to another water right
 - 90% of savings account water remaining at end of calendar year rolls over to future year

$$(WR - WU) * .25 = \text{Annual Deposit Amount}$$



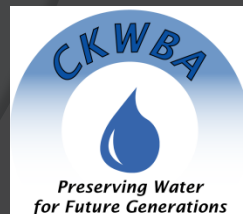
Savings Account

Certified Water Right 195 AF

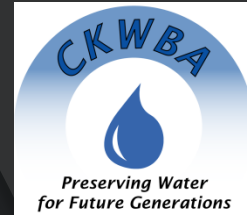
Year 2015 Water use: 115 AF

Deposited: $(WR - WU) \times 25\%$ 20.00 AF

20.00 AF available for use in future years.



2016 Fees



Central Kansas Water Bank Association

	DEPOSIT	LEASE	SAVINGS ACCT.
Application	\$150	\$150	
* Contract	\$450	\$200	\$100
* Monitoring	\$100 /yr	\$100 /yr	Free
Modifications to Contract	\$50		\$25
Cancellation of Deposit	\$150		
Savings Acct. Withdrawal			\$100
Term Limit	5 years		

* Payable at time of contract signing

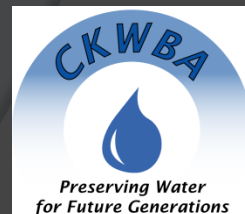
Central Kansas Water Bank

◎ Deposit / Lease

- 2013 – 1 transfer
- 2014 – 1 transfer
- 2015 – 2 transfers
- 2016 – 8 transfers

◎ Savings Accounts

- 2013 – 217 active accounts
- 2014 – 468 active accounts
- 2015 – 241 active accounts
- 2016 – 24 active accounts
- **Total: 950 accounts**

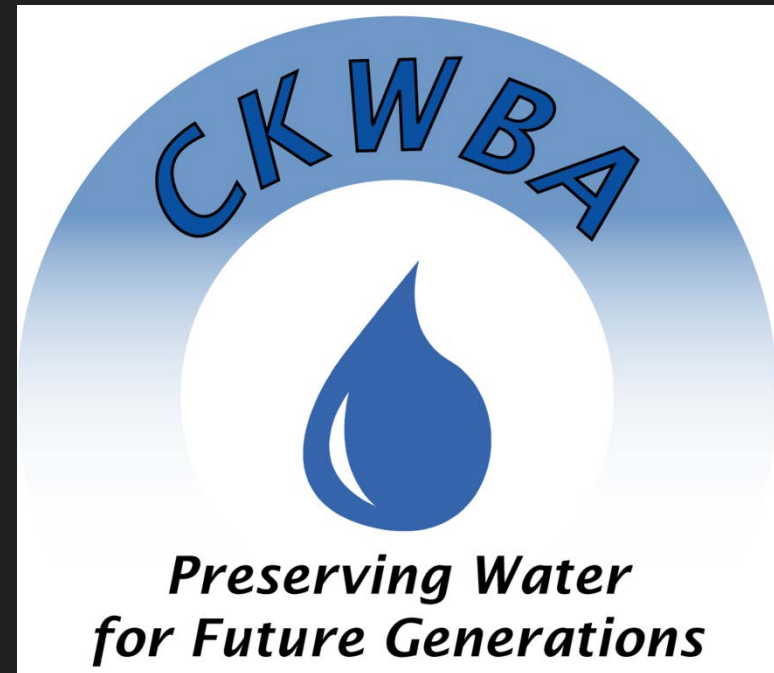


Real-Time Notification

- To receive messages via text, text the appropriate @code to 81010. You can opt out of messages at anytime.
- To receive messages via email, send an email to the appropriate code@mail.remind.com. To unsubscribe, reply with 'unsubscribe' in the subject line.

Notification List	Code	Notification List	Code
Central Kansas Water Bank	@ckwba	North Fork Ninnescah River Subbasin	@nfninn
Arkansas River Subbasin	@arknssrvr	Pawnee River Subbasin	@pawneervr
Chikaskia River Subbasin	@chikaskia	Rattlesnake Creek Subbasin	@rttlnkerk
Cow Creek Subbasin	@cowcreek	South Fork Ninnescah River Subbasin	@sfninn
Medicine Lodge River Subbasin	@medlodgerv	Walnut Creek Subbasin	@wlnterk

Questions



Orrin Feril, Manager

Central Kansas Water Bank Association

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Web: www.ckwba.org

Email: oferil@gmd5.org